Your Ref. No.:05501-cp/us Our Ref. No.: 0678-6472US/ final/韓立新/Kevin

What Is Claimed Is:

- 1. A filtering induction device, comprising:
- a first flat coil formed by winding a first conductive strip
- 3 to form a spiral having a plurality of circles, wherein the
- 4 circles each have a first radius and are arranged layer by layer,
- wherein the first conductive strip has a first upper surface
- 6 and a first lower surface, wherein the first conductive strip
- 7 is covered with an isolation material and the first flat coil
- is used as an inductor;
- a second flat coil formed by winding a second conductive
- strip to form a spiral having a plurality of circles, wherein
- the circles each have a second radius and are arranged layer
- by layer, wherein each of the circles of the second conductive
- strip is wound between the first upper surface and the first
- lower surface, to serve as a capacitor; and
- a core structure coupled to the first flat coil and the second
- 16 flat coil.
- 1 2. The filtering induction device of claim 1, wherein the
- core structure is further comprised of:
- a core base adapted to contain the first and second flat
- 4 coils; and
- a core cover disposed on the core base.
- 3. The filtering induction device of claim 2, wherein a
- sidewall of the core base is provided with at least one opening,
- yia which the first and second flat coils extending out from
- 4 the core base.

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- 4. The filtering induction device of claim 1, wherein a terminal of the second flat coil is grounded.
- 5. The filtering induction device of claim 1, wherein the thickness of the first flat coil is substantially equal to the product of the thickness of the first conductive strip times the number of the circles that the first conductive strip is
- 6. The filtering induction device of claim 1, wherein the thickness of the second flat coil is substantially equal to the product of the thickness of the second conductive strip times the number of the circles that the second conductive strip is wounded.
- 7. The filtering induction device of claim 1, wherein the first conductive strip is wound such that the first upper surface substantially faces the first lower surface parellelly.
- 8. The filtering induction device of claim 1, wherein the second conductive strip is wound such that the second upper surface substantially faces the second lower surface parellelly.
- 9. A filtering induction device, comprising:
- a first coil having a plurality of circles, wherein the first
- coil is used as an inductor and is covered with an isolation
- 4 material;

wound:

- a second coil having a plurality of circles interlacing with
- 6 the plurality of circles of the first coil; and

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- a core structure coupled to the first and second coils.
- 10. The filtering induction device of claim 9, wherein the
- 2 first coil is a flat coil.
- 11. The filtering induction device of claim 9, wherein the
- second coil is a flat coil.
- 1 12. The filtering induction device of claim 9, wherein the
- core structure is further comprised of:
- a core base adapted to contain the first and second coils;
- 4 and
- a core cover disposed on the core base.
- 13. The filtering induction device of claim 12, wherein the
- core base is provided with at least one opening on a sidewall
- thereof, via which the first and second coils extend out from
- 4 the core base.
- 1 14. The filtering induction device of claim 9, wherein a
- terminal of the second coil is grounded.